



LEON COUNTY
BOARD OF
COUNTY COMMISSIONERS

Reducing our carbon footprints

Presentation by Debbie Gibson

Sustainable Communities Summit 10.31.2012

The Community Carbon Fund of Sustainable Tallahassee



Sustainable Communities Conference
October 31, 2012
Debbie Gibson, presenter

We're all trying to do better...



but...

we're all still emitting carbon!



The University of Leicester has constructed a 'Carbon Cube' in the centre of its main campus to show the space that a tonne of carbon dioxide takes up at standard atmospheric pressure.

**So what do we do
about it?**



**How do we make
a difference?**

Become an investor in the Community Carbon Fund!

Sustainable Tallahassee, Inc. invites local individuals, businesses, institutions and organizations to join in this project and become Investing Partners or Community Partners. Investing and Community partners receive a seat on the advisory council that recommends local projects to receive funding.

Investing Partners - \$5,000 or more

The Fund's Investing Partners are committed to reducing carbon emissions, enabling employees to participate in supporting the Fund, and marketing the Fund--internally and externally--to ensure its growth and success. Investing partners hold permanent positions on the Community Carbon Fund's Advisory Council.

Community Partners - \$1,000 to \$5,000

The Fund's Community Partners are committed to reducing carbon emissions, enabling participants to participate in supporting the Fund, and marketing the Fund internally and externally to ensure its growth and success. Community Partners hold rotating positions on the Community Fund's Advisory Council.

Individual Partners - up to \$1,000

Individual donors are households and businesses that wish to offset their carbon foot-print by making tax-deductible donations to the Fund.

Use our [simple calculator](#) to determine your carbon footprint and make a donation that will make a real difference in our community.

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We Must Change Our Behavior To Make A Difference!

It's Time To Act!

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For more information about the Community Carbon Fund, click [here!](#)

YOU CAN MAKE A DIFFERENCE!

And what will that do?

Your donation allows CCF to invest in our community by completing energy retrofits for non-profits that serve the poor, disadvantaged and disenfranchised, allowing them to save money on their utilities which can then be used to provide services.

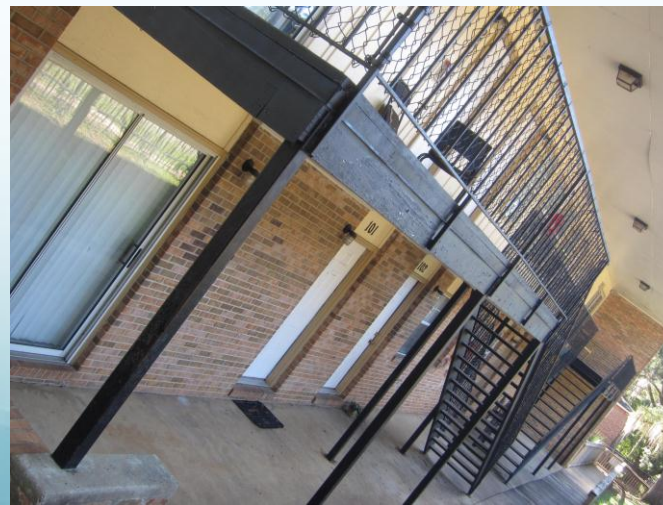
Bethany Family Apartments



The Emergency Care and Help Organization (ECHO) operates Bethany Family Apartments as a short-term emergency transitional housing option for families that find themselves facing homelessness.



**Bethany Family Apartments-
providing temporary housing to
families facing homelessness**





Energy Retrofits to



Bethany Family Apartments

All apartments' ceiling insulation was deemed very low and was increased significantly.

Originally the apartments' R-values ranged from R-3 to R-10 and were increased from R-31.5 up to R-38 in some apartments.

The City of Tallahassee provided ceiling insulation grants which covered the cost of the work completely. Carbon and cost savings are dependent of the use practices of the tenants so they could not be calculated.

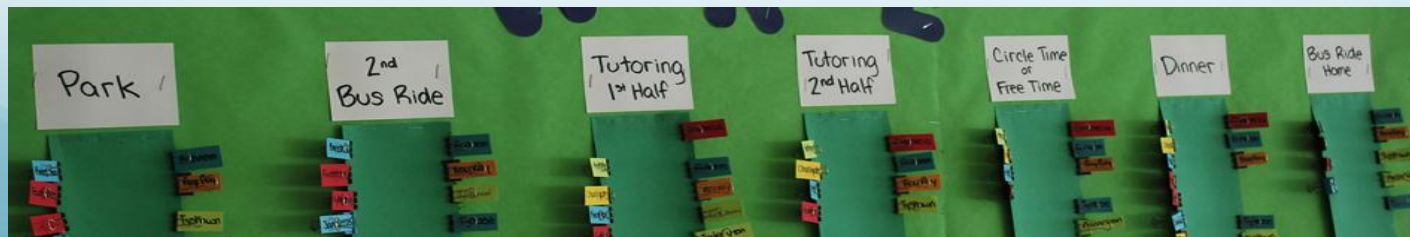
Grace Mission Episcopal Church

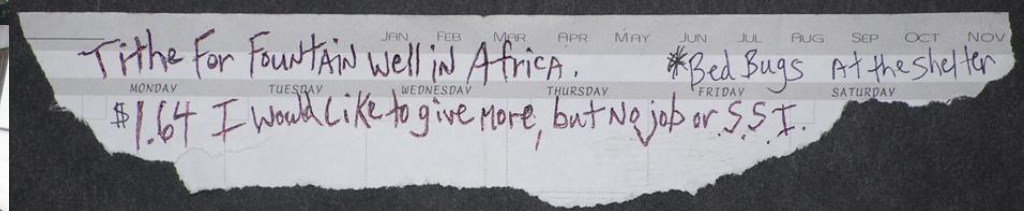


"Grace Mission helps reach those who are often forgotten in society: the homeless, poor, underemployed, addicted, people with AIDs, ..."



**Whether through our feeding program, worship services, outreaches, afterschool program, Bible Study, and many others, we try to extend "grace upon grace" to all people."
--Pastor Amanda Nickles**





Grace Mission Energy Retrofits:

Replace old glass refrigerator with an Energy Star Model sold at cost by Brown's Refrigeration (Walmart provided \$2000 grant)



Old ballasts and bulbs replaced by electronic ballasts and new T-8 energy efficient bulbs

Electric water heater replaced by on-demand Chofu gas heater with installation costs donated by Watts Mechanical and Finley McMullen, the Chofu representative



Expected Carbon and Cost Savings

Refrigeration replacement – 4.65 metric tonnes annually (\$1215/yr)

Lighting Upgrades – 2.86 metric tonnes annually (\$650/yr)

Tankless Gas Water Heater – 1.79 metric tonnes annually (\$230/yr)

Total: 9.3 metric tonnes (\$2095/yr)

Big Bend Homeless Coalition

Hope Community

Our mission is to end homelessness in the Big Bend through leadership, education, advocacy, and the provision of quality services.



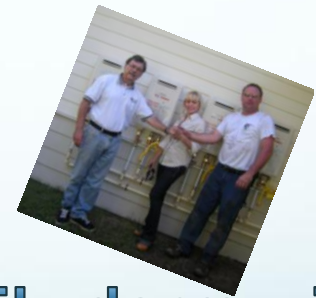
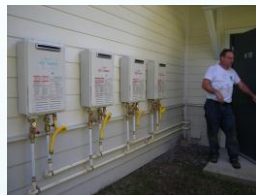
HOPE Community is a transitional housing program for homeless families, single women, and single men. Our purpose is to provide a safe and structured living environment where each resident is empowered to recover from homelessness and become self-sufficient. We accomplish this goal by partnering with residents to pursue a recovery-based program, maintain a steady source of income, and find stable housing. HOPE Community is the only program of its kind in our eight-county Big Bend area. Over 70% of HOPE residents move into stable housing.

Since 2005, HOPE Community helped over 785 people – including more than 300 children – move to stable housing, ending their episode of homelessness. HOPE Community has a six-month time frame for residents participating in the program. HOPE provides quality services and housing for 100-115 at any given time.

Energy Retrofits at the Hope Community



Replace thermostats with programmable thermostats which will be set to the City of Tallahassee's recommended temperature settings. Additionally, all staff at the Hope Community were trained in how to set the thermostats internally and in the importance of following City guidelines for cost savings. Terri Nitti of Honeywell got all the equipment, labor, and training costs donated for the project.



Replace the electric water heaters in the family dorm with on-demand gas water heaters. The work was done by Watts Mechanical.

Expected Carbon and Cost Savings



Replacing existing thermostats with programmable thermostats and maintaining a setting of no lower than 75° in the summer and no higher than 70° in the winter – 26.5 metric tonnes (\$6300)

Replacing the electric water heaters in the family dorm with on-demand gas water heaters – 6.04 metric tonnes (\$1200)



Pending Projects

Hope Community – replace the water heaters with on-demand gas in the women's dorm



Alford Arms Greenway – planting a colonnade of 100 oak trees at the entrance of the park to sequester carbon and provide shade and improved aesthetics



Win/Win/Win/Win

Less energy used to generate electricity, lowering demand and delaying the need for a new power plant

Less money spent on utilities so more money is available to spend on programs for some of our neediest neighbors

Local construction businesses complete the work involved with the retrofits improving our economy

Less carbon dioxide is emitted because of lower usage so the County's carbon footprint is smaller and the environment is improved for all residents

Requests for Proposals Sought

Announcement at Green Drinks

Article in Good Green News

**Announcement at the Sustainable
Communities Conference luncheon**

**Presentation to the Human Services
Network later this week**

Spread the word...



Thanks to our partners who have enabled us to do the work thus far:

 **City of Tallahassee** and the EPER, Energy Services, and
Natural Gas Utility Departments

**Board of County Commissioners and staff from County
Administrator and Office of Sustainability**



First Presbyterian Church

Bob Henderson

Stewart Parsons

**and numerous individuals who have
annually offset their carbon footprint
or donated to the fund**

How can I get involved?

Stop by the ST table today and donate!

**Go to sustainabletallahassee.org/calchome
and use the Carbon Calculator to determine your
personal or business' carbon footprint
and offset all or part of it**

Offset business conferences, meetings, or events

**Consider a more sustainable way of celebrating the
upcoming holidays and give a gift through CCF at
John Wesley's Alternative Christmas Market
Dec. 1 from 9:00 – 4:00
and Dec. 2 from 1:00 - 4:00**

**or give a gift through
www.sustainabletallahassee.org**